

# TM-7 GUITAR MONITOR

## Owner's Manual

Thank you, and congratulations on your choice of the BOSS TM-7 GUITAR MONITOR.

Before starting out, please take the time to read through this manual. That way, you will better understand every outstanding feature the unit provides, and can be assured of years of trouble-free service.

## FEATURES

### Mixes External Audio and Guitar

The TM-7 can mix the audio signals from a cassette player or CD player with what you play on the guitar. This makes it easier to copy phrases, and gain valuable guitar practice.

### Guitar Amplifier Simulator

The TM-7 is equipped with a full-scale guitar amplifier simulator that provides three volume and three tone controls. The powerful signal of this guitar amplifier can be reliably output even with LINE recording.

### Center Canceler

Allows you to cancel (erase) audio signals oriented at the center of the sound field, thus effectively muting vocals or a guitar solo.

### Send/Return

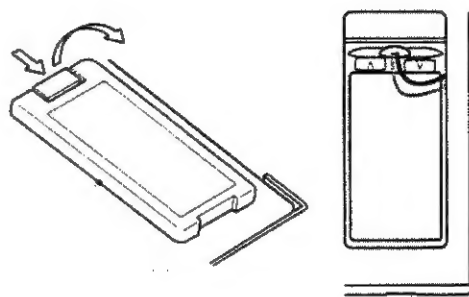
By connecting an external effects unit to the Send/Return provided on the TM-7, you can enjoy the guitar sound along with the external effect. Since the Return supports stereo, you can enjoy the full benefit of effects units which provide stereo output.

### Headphone Jack

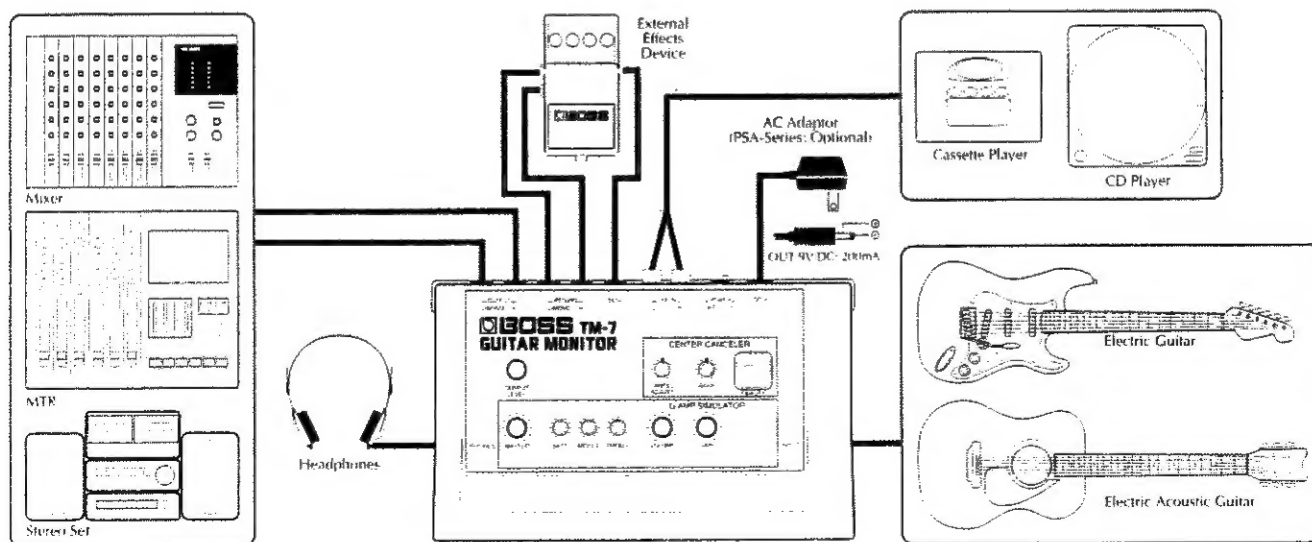
The TM-7 provides a Headphone jack (stereo mini). By using headphones, you can play your guitar even late at night without being concerned about what your neighbors think.

## CHANGING THE BATTERY

1. Remove the cover from the battery case on the bottom of the unit.
2. Remove the battery from the battery case.
3. Insert a new battery in the battery case as shown in the illustration.
4. Replace the cover on the battery case.



## MAKING THE CONNECTIONS



\* Before connecting the TM-7 with other units, be sure to turn down the volume on any amplifiers, then switch off all units, including the TM-7. Connecting the units while power is on can cause damage or malfunction.

\* If the unit to be connected with the TM-7 is monaural, connect it to the L(MONO) jack.



## IMPORTANT NOTES

When using an AC adaptor, use only the specified device (PSA Series). Use of any other AC adaptor could result in damage, malfunction or electric shock.

### (POWER SUPPLY)

Before connecting this unit to other devices, turn off the power to all units; this will help prevent damage or malfunction.

Do not use this unit on the same power circuit with any device that will generate line noise; an electric motor or variable lighting system for example.

The power requirement for this unit is indicated on its nameplate (rear panel). Ensure that the voltage in your installation meets this requirement.

Avoid damaging the power cord: do not step on it, place heavy objects on it, etc.

When disconnecting the AC adaptor from the power outlet, grasp the plug itself; never pull on the cord.

If the unit is to remain unused for an extended period of time, unplug the power cord.

When installing or replacing batteries, refer to "CHANGING THE BATTERY".

### (PLACEMENT)

Do not subject the unit to temperature extremes (eg., direct sunlight in an enclosed vehicle). Avoid using or storing the unit in dusty or humid areas, or areas that are subject to high levels of vibration.

Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum.

Do not expose the unit to temperature extremes or install it near devices that radiate heat. Direct sunlight in an enclosed vehicle can deform or discolor the unit.

### (MAINTENANCE)

For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

### (ADDITIONAL PRECAUTIONS)

Protect the unit from strong impact.

Do not allow objects or liquids of any kind to penetrate the unit. In the event of such an occurrence, discontinue use immediately. Contact qualified service personnel as soon as possible.

Should a malfunction occur, or if you suspect there is a problem, discontinue use immediately. Contact qualified service personnel as soon as possible.

To avoid the risk of electric shock, do not open the unit.

### (CHANGING BATTERY)

When replacing battery, be sure to insert them correctly (to ensure correct polarity).

Remove the battery whenever the unit is to remain unused for an extended period of time.

## SPECIFICATIONS

### TM-7: GUITAR MONITOR

#### Nominal Input Level

INPUT ..... -20 dBm  
RETURN L(MONO)/R ..... -20 dBm  
LINE IN L/R ..... -10 dBm

#### Input Impedance

INPUT ..... 1 M $\Omega$   
RETURN L(MONO)/R ..... 47 k $\Omega$   
LINE IN L/R ..... 47 k $\Omega$

#### Nominal Output Level

OUTPUT L(MONO)/R ..... -10 dBm  
SEND ..... -20 dBm  
PHONES ..... -4 dBm

#### Output Impedance

OUTPUT L(MONO)/R ..... 2 k $\Omega$   
SEND ..... 1 k $\Omega$   
PHONES ..... 47  $\Omega$

#### Equivalent Input Noise Level

-116 dBm (IHF-A, typ.)

#### Headphones

7.5 mW (33  $\Omega$  load)

#### Controls

POWER Switch, OUTPUT LEVEL Knob

[CENTER CANCELER]

Canceler Button, BASS Knob, CANCEL ADJUST Knob

[GUITAR AMP SIMULATOR]

GAIN Knob, VOLUME Knob, MASTER Knob, TREBLE Knob, MIDDLE Knob, BASS Knob

#### Indicators

POWER Indicator, Canceler Indicator

#### Connectors

INPUT Jack, SEND Jack, RETURN Jacks L(MONO)/R, OUTPUT Jacks L(MONO)/R, LINE IN Jacks L/R (RCA Phono type), HEADPHONE Jack (Stereo Miniature phone type), AC Adaptor Jack (9 V DC)

#### Power Supply

9 V DC : Dry battery 5-006P/9 V (6F22/9 V), AC Adaptor (PSA Series : Optional)

#### Current Draw

60 mA (MAX)

\* Expected battery life under continuous use :

Carbon : 2 hours

Alkaline : 11 hours

These figures will vary depending on the actual conditions of use.

#### Dimensions

218 (W) x 138 (D) x 46 (H) mm

8-5/8 (W) x 5-7/16 (D) x 1-13/16 (H) inches

#### Weight

550 g / 1 lbs 4 oz (including battery)

#### Accessories

Owner's Manual, Dry battery 5-006P/9 V (6F22/9 V)

0 dBm = 0.775 Vrms

\* In the interest of product improvement, the specifications of this unit are subject to change without prior notice.

\* If you have questions about the TM-7, or need repair service, contact your local Roland service center.

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## PANEL DESCRIPTIONS

### Top Panel

#### CENTER CANCELER

This cancels (erases) any signals localized at the center of the sound field from the audio that is input to the LINE IN jacks. It can be used to mute vocals or a guitar solo (thus allowing for "minus-one" play).

- *Reverberant or other such sounds might still remain audible while using the Canceler function.*
- *When the Canceler function is being used, the audio signals are output in monaural.*
- *With a monaural audio signal, all the audio could get canceled (erased).*

#### CANCEL ADJUST Knob

Used for fine adjustment to obtain the best Cancel condition. Normally, set it to the center position, then adjust it as necessary until the vocal or guitar solo is sufficiently erased.

#### BASS Knob

As a result of using the Canceler function, a guitar's bass sounds could be canceled as well, creating a shallow sound lacking much of the lower frequency content. If this happens, you can adjust this knob to emphasize the bass, and produce a well-balanced sound. Normally, set it to the center position, then adjust the bass according to your taste. Rotating the Bass Knob clockwise increases the lower frequency content.

#### Canceler Button

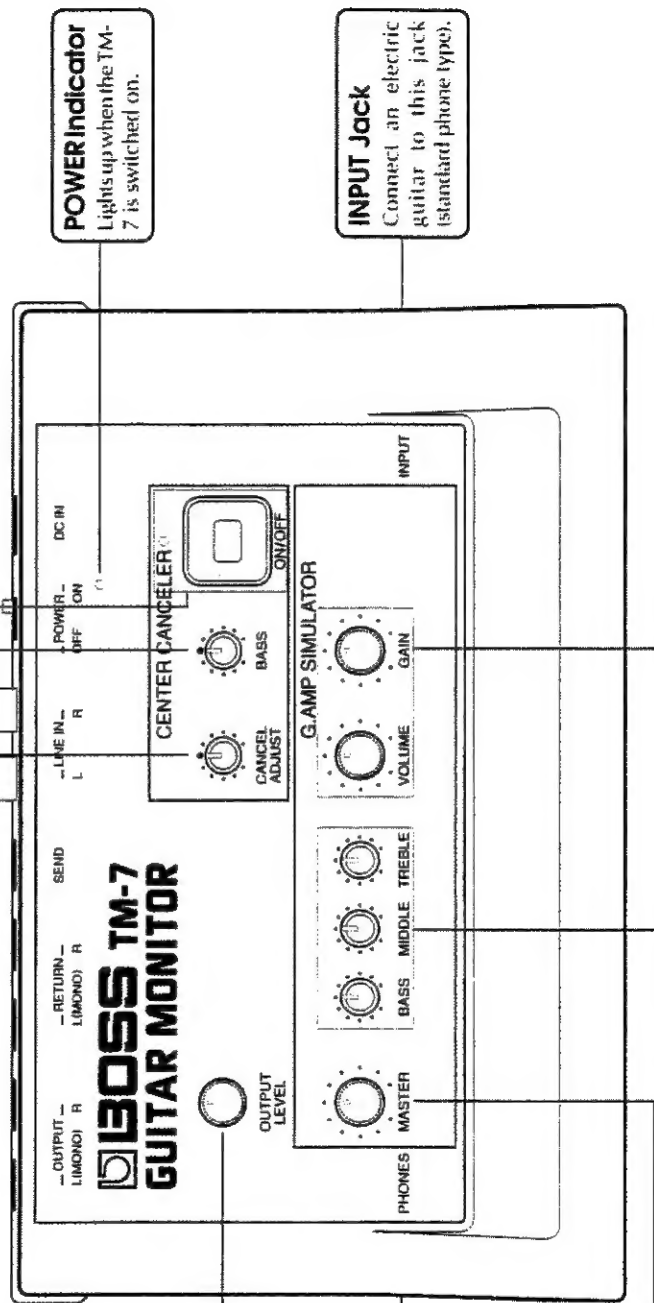
**Canceler Indicator**  
This turns on or off the Canceler function. The Canceler Indicator lights when the Canceler is turned on.

#### OUTPUT LEVEL Knob

This adjusts the overall volume of the sound mixture (combining external audio and the guitar sound). It controls the level of what is output to the Output jacks and Headphone jack.

#### HEADPHONE Jack

Accepts connection of headphones (stereo mini type).



**POWER Indicator**  
Lights up when the TM-7 is switched on.

**INPUT Jack**  
Connect an electric guitar to this jack (standard phone type).



#### **MASTER Knob**

This adjusts the volume of the guitar sound. Turn it clockwise to increase the volume. Use it for adjusting the balance respective to the audio signal's level.

#### **TREBLE Knob**

This adjusts the treble of the guitar sound. Rotating it clockwise emphasizes the higher frequencies.

#### **MIDDLE Knob**

This adjusts the middle frequencies of the guitar sound. Rotating it clockwise emphasizes the middle frequencies.

#### **BASS Knob**

This adjusts the bass of the guitar sound. Rotating it clockwise emphasizes the lower frequencies.

• *When the Treble/Middle/Bass knobs are all set to the minimum, no guitar sound will be output.*

#### **GAIN Knob**

Used to control the amount of distortion generated by the amplifier. Rotating it clockwise increases the distortion.

#### **VOLUME Knob**

This adjusts the volume of the amplifier. Rotating it clockwise increases the volume.

The distortion of the guitar sound is altered by adjusting the Gain Knob and Volume Knob. For example, to obtain a clean sound, lower the Gain Knob and raise the Volume Knob. On the other hand, to create a distorted sound, raise the Gain Knob and lower the Volume Knob. The TM-7 has three volume controls - you can adjust the distortion with the Gain and Volume Knobs, and adjust the volume of the guitar sound with the Master Knob. For examples of some basic settings, including tone controlling, refer to "SAMPLE SETTINGS".

### **GUITAR AMP SIMULATOR**

This is a full-scale guitar amplifier simulator that features three volume and three tone controls. Provides output of the powerful sound of a guitar amplifier, whether when monitoring with an audio system or headphones, or when LINE recording.

## Side/Rear Panel

### SEND/RETURN Jacks

Connect an external effects unit to these jacks. Once an effects unit has been connected, the guitar sound will be output after passing through the external effect, so you can enjoy the guitar sound with the external effect applied to it. Since the returns support stereo, effects units providing stereo output can be enjoyed to the full.

#### SEND Jack

Connect an external effect to this output jack. Connect this jack to the input jack on the external effect.

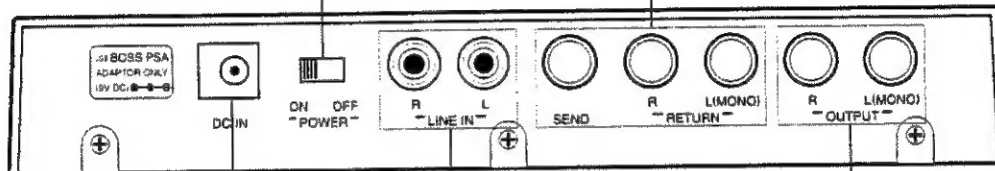
#### RETURN Jacks L(MONO)/R

These input jacks are used for connecting with an external effects unit. Connect the output jacks on the external effect to these jacks. If the external effect provides only monaural output, connect to L(MONO).

### POWER Switch

Turns the TM-7 on or off. While the unit is on, the Power Indicator will be lighted.

- \* The external effects unit connected to the Send/Return jacks on the TM-7 is connected to the output from the Guitar Amplifier Simulator.
- \* Connecting an effect to the TM-7 may cause a change in the degree of distortion obtained. If so, rotate the Master Knob counterclockwise to lower the output level of the signal sent from the Send jack.



### AC Adaptor Jack

Connect the optional AC adaptor (BOSS PSA Series) to this jack. By using an AC adaptor, you are freed from worry about the battery wearing out, and can continue to use the unit for as long as you want.

- \* Even when using the AC adaptor, keep the battery inserted in the TM-7. This way, the unit will continue to operate on battery power even if the AC adaptor is disconnected by mistake.
- \* Be sure to use only the specified adaptor (PSA Series; depending on the voltage system in your country). Using any other adaptor can cause malfunction or damage. If you are not going to use the unit for an extended period of time, be sure to remove the AC adaptor from the wall socket.

### LINE IN Jacks L/R

Connect an audio source such as a cassette player or CD player to these jacks (RCA phono type).

### OUTPUT Jacks L(MONO)/R

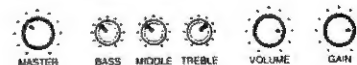
Use these output jacks when monitoring the sound using an audio system or to record the LINE output. To connect in monaural, use the L(MONO) jack.

## SAMPLE SETTINGS

### Normal / Single Coil



### OverDrive / Single Coil



### Normal / Humbucking



### OverDrive / Humbucking



### Cutting



### Crunch



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